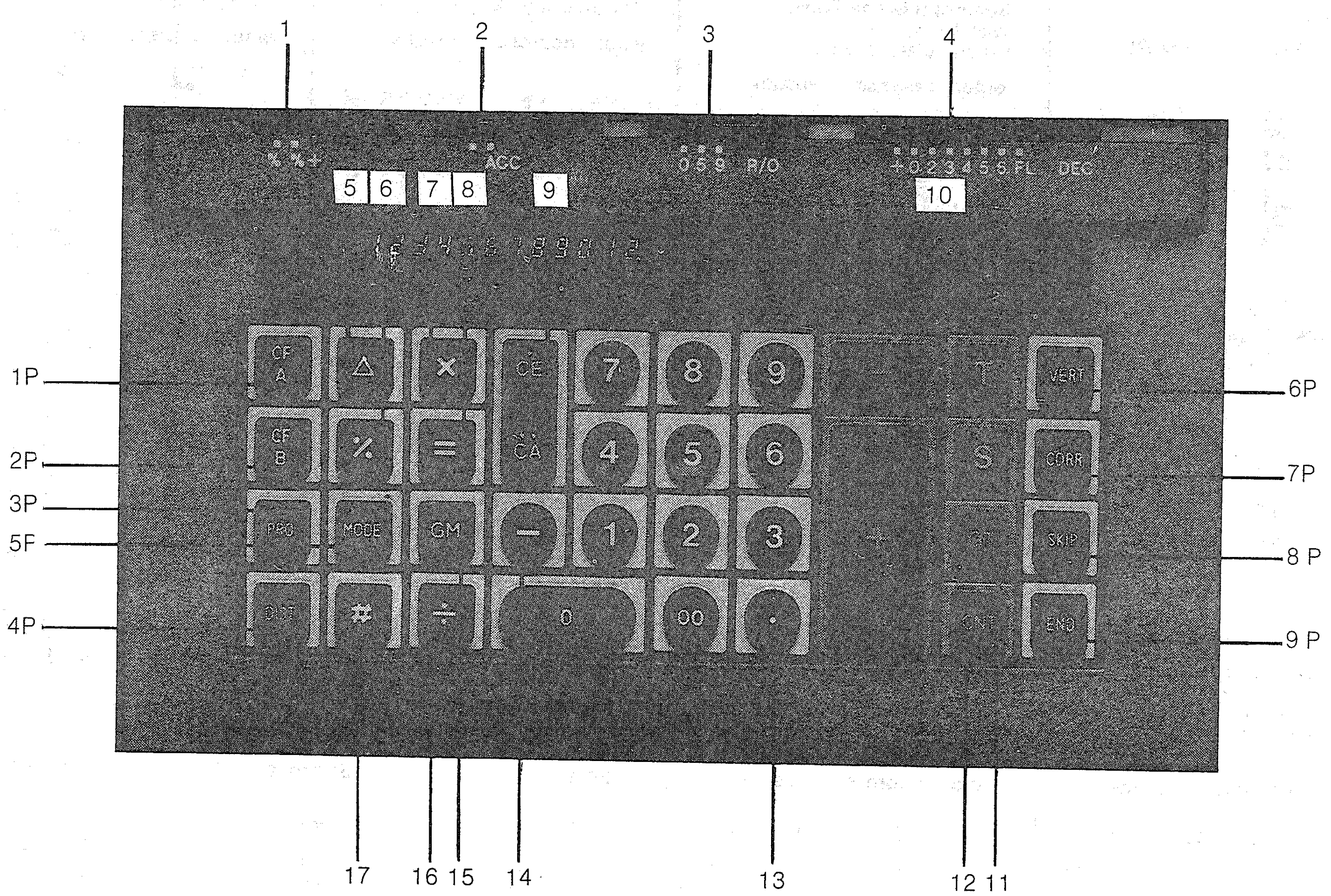
LOGOS 75B
Electronic Printing Business Calculator

Basic Operating Instructions

olivetti

#79140

LOGOS 75B KEYBOARD



Manual Mode

1. Percent
2. Accumulator
3. Round-Off Control
4. Decimal Selector

5. Delta or Percent Change Key
6. Percent Key
7. Multiplication Key
8. Equals Key
9. Clear Entry/Clear All Key
10. Register 1
11. Grand Total Key
12. Item Count
13. Decimal Key
14. Negative Sign
15. Gross Margin Key
16. Division Key
17. Non-Add Key

Program Mode

1P. Crossfoot A
2P. Crossfoot B
3P. Proration Key
4P. Distribution Key
5P. Mode Key
6P. Vertical Key
7P. Correct Key
8P. Skip Key
9P. End Key

NOTE: Constant is automatic—it is the last entry in multiplication, division, percentage calculations and the first entry in gross margin and percent change calculations.

MANUAL MODE

Note: Set selectors as follows, unless otherwise indicated. Accumulator off, round-off and decimal selectors at 0. Before each example, depress the CE/CA key twice to clear the calculator:

ADDITION/SUBTRACTION

Simple:

enter	depress	results
125	+	125 +1
220	+	220 +1
75	−	75 −1
	T	270 T1

With Add Mode:
(Decimal at +)

enter	depress	results
125	+	1.25 +1
220	+	2.20 +1
75	−	0.75 −1
	T	2.70 T1

Sums and Grand Total:
With item count
(Accumulator at ACC)

enter	depress	results
10	+	10 +1
20	+	20 +1
30	+	30 +1
	T	60 ◇1
	CNT	3 C1
15	+	15 +1
25	+	25 +1
	T	40 ◇1
	CNT	2 C1
	GT	
	T	100 T2
	CNT	2 C2

MULTIPLICATION

Simple:
(Decimal at 2, Round-off at 5)

enter	depress	results
12.275	×	12.275 ×
29	=	29.00 =K
		355.98 T

Chain:

enter	depress	results
2	×	2 ×
9	×	9 ×
		8 =K
8	=	144 T

With Accumulation:
(Accumulator at ACC)

enter	depress	results
2	×	2 ×
		17 =K
17	=	34 ◇
15	×	15 ×
12	=	12 =K
		180 ◇
	GT	
	T	214 T2

With Constant:

enter	depress	results
24	×	24 ×
2	=	2 =K
		48 T
12	=	12 ×
		2 =K
		24 T

DIVISION

Simple:

enter	depress	results
14400	÷	14 400 ÷
12	=	12 =K
		1 200 T

With Accumulation:
(Accumulator at ACC)

enter	depress	results
144	÷	144 ÷
12	=	12 =K
		12 ◇
980	÷	
10	=	980 ÷
		10 =K
	GT	98 ◇
	T	110 T2

With Constant:

enter	depress	results
144	÷	144 ÷
12	=	12 =K
		12 T
24	=	24 ÷
		12 =K
		2 T

PERCENT

Mark-up:
(Decimal at 2, Round-off at 5
Percent Switch at % +)

enter	depress	results
150	×	150.00 ×
2.5	%	2.50 %K
		3.75 T
		153.75 T

Mark-down:
(Decimal at 2, Round-off at 5
Percent Switch at % +)

enter	depress	results
195.66	×	195.66 ×
−35	%	−35.00 %K
		−68.48 T
		127.18 T

Percent Equals:
(Decimal at 2. Round off at 5, Percent Switch at %)

enter	depress	result
125	×	125.00 ×
1.5	%	1.50 %K
		1.88 T

Percent Change:
Compare: 1976 — 10,600
1977 — 12,500

enter	depress	results
10600	△	10 600 △K
12500	=	12 500 =
		1 900 △T
		17.92 △%

Gross Margin:
(Decimal at 2. Round-off at 5)
Cost = 121.17
GM = 17%
Find selling price

enter	depress	results
17	GM	17.00 MK
121.17	=	121.17 CO
		145.99 P

Gross Margin Key to Subtract Percentage —
You have a check for $1080 which includes 8% tax. What is the amount less the tax?

enter	depress	results
−8	GM	−8 MK
1080	=	1 080 CO
		1 000 P

PROGRAMMING MODES

To select a program, the calculator must be in Manual Mode and the desired program key depressed. The abbreviated title of that program will print on the tape.

CFA = CF 48
CFB (ACC OFF) = CF 24
CFB (ACC ON) = CF 24 GT

PRO (ACC OFF) = PRO 52
PRO (ACC ON) = PRO 26
DIST (ACC OFF) = DIST 52
DIST (ACC ON) = DIST 26

To change from one program to another or re-initiate a program return the machine to Manual Mode by depressing the

MODE key followed by the desired program key

Depress MODE to return the calculator to Manual Mode while in a program.

Depress MODE to return to an existing program if you have interrupted the program for a manual calculation.

The END Key must be depressed to signal the machine that you have completed programming.

Note: Set selector switches as follows unless otherwise indicated. Accum OFF; Round OFF at 5, Decimal at 0. In the examples the numbers in bold type represent the amounts to be calculated.

CF A

Crossfooting A permits the addition and or subtraction of up to 48 columns of numbers, with both horizontal and vertical totals available. Additions, subtractions and results of calculations are automatically accumulated.

Example:

25 +	68 +	(32x6 =	**192**) +	0	−5	=	**280**
12 +	16 +	(15x3 =	**45**) +	3	−6	=	**70**
6 +	0 +	(2x7 =	**14**) +	10	−3	=	**27**
43	**84**		**251**	**13**	**−14**		**377**

Enter	Depress	
	[CF A]	Select Program
25	[+]	
68	[+]	
32	[×]	
6	[=]	
	[SKIP]	
	[+]	Necessary to leave a space for future entries
5	[−]	
	[T]	
	[END]	End program
12	[+]	After first line all entries are made with + key
16	[+]	
15	[+]	
3	[+]	
3	[+]	
6	[+]	Total prints automatically
6	[+]	
	[SKIP]	No entry
2	[+]	
7	[+]	
10	[+]	
3	[+]	
	[S]	To see vertical subtotal
	[△]	To compare each column to the next one #5
		(Note: To compare each column to one specific column enter the specific column number & depress △ (1, would compare everything to column one).
6	[%]	Percent proration (enter number of column where the grand total is and depress %)

Tape

```
CF 48
          001#
01                 25+
02                 68+
                   32×
                    6=
03                192R
04        SKIP       +
05                  5-
06                280T
----------------------
          002#
01                 12+
02                 16+
                   15×
                    3=
03                 45R
04                  3+
05                  6-
06                 70T
----------------------
          003#
01                  6+
02        SKIP       +
                    2×
                    7=
03                 14R
04                 10+
05                  3-
06                 27T
----------------------
          004#
01                 43S
02                 84S
03                251S
04                 13S
05                −14S
06                377S
----------------------
          005#
02/01
                   41△
                95.35%
03/02
```

Tape Continued

```
                  167△
               198.81%
04/03
                 −238△
               −94.82%
05/04
                  −27△
              −207.69%
06/05
                  391△
            −2 792.86%
----------------------
          006#
01/06
                11.41%
02/06
                22.28%
03/06
                66.58%
04/06
                 3.45%
05/06
                −3.71%
06/06
               100.00%
----------------------
          007#
```

(Handwritten margin notes:) ...E [T] depressed, ...L FOLLOWING #'s ...E '0'. NO △ ...R % would work

...TER [S], MORE ...ES CAN STILL ADDED TO LIST.

VERT

Depressed after a numeric entry and before the function key (12 VERT X) will cause that value to be accumulated vertically. Only additions, subtractions and results automatically accumulate vertically.

CORR

It is not possible to make a correction in the first line because you are still programming. If an error is made in line one simply re-initiate the program and begin again.

If an error is made in a subsequent line, depress the CORR Key and re-enter the line up to and including the error. When the line number reprints enter the line again correcting the error and continue.

SKIP

When entering a program in crossfooting (entering the first line) and there are columns that will have entries in successive lines but have nothing in the first line it is necessary to enter those functions in the program. This is done by depressing the Skip Key followed by the desired function (+, −, x, ÷, =) key.

After a program is entered and there is a column that does not have an entry a depression of the Skip Key will skip that column.

END

After the first line is completed the End Key is depressed to signal the program has been entered.

The End Key can also be used after the last entry in a line is made and there are several columns to be skipped, depress the End Key to skip those entries. If the line ends with a subtotal or total it will print automatically.

CF B

With the Accumulator off, selection of this program permits the crossfooting of 24 columns exactly as described under Crossfoot A. The only difference is the method of making a correction and the availability of vertical constants.

CORR

The only action necessary to make a correction in a line being entered is to depress the Correct Key. The number of the line being entered and COR prints followed by a dotted line. The same line number then prints which is the operators signal that the corrections have been made and the line should now be entered correctly.

VERT

Any number which has been added or subtracted can be repeated in the same column in the next line by depressing the Vertical Key when the number is to be repeated.

Any factor in a calculation can be set up as a constant if it is qualified as one when the program is entered. To qualify a factor as a constant depress the Vertical Key before or after that number is indexed. The number will accumulate vertically and can be used as a constant. When it appears in the next column depress the Vertical Key when the number is to be entered.

In either case the constant changes as soon as a different number has been entered.

CF B

With the Accumulator on ACC selection of this program permits the crossfooting of 24 columns exactly as described under Crossfoot A. All related keys (VERT, CORR SKIP and END) also operate the same as described in CF A. The only difference is it is possible to perform a crossfoot operation with sums and grand total both horizontally and vertically. This is performed exactly like it is in Manual Mode. Columns are totaled as the problem indicates and when a grand total is desired depress the GT followed by the T key.

Example:

Sales Report — January

	A1	A2	A3	Total A's	B1	B2	TotalB's	Grand Total (A's + B's)
Location 1	100	150	175	**425**	2000	1500	**3500**	**3925**
Location 2	200	250	280	**730**	3500	4000	**7500**	**8230**
Total Jan	**300**	**400**	**455**	**1155**	**5500**	**5500**	**11000**	**12155**

Sales Report — February

	A1	A2	A3	TotalA's	B1	B2	TotalB's	Grand Total (A's + B's)
Location 1	175	0	395	**570**	1900	2500	**4400**	**4970**
Location 2	280	0	680	**960**	3200	3900	**7100**	**8060**
Total Feb	**455**	**0**	**1075**	**1530**	**5100**	**6400**	**11500**	**13030**
Year-to-date total (Jan plus Feb)	**755**	**400**	**1530**	**2685**	**10600**	**11900**	**22500**	**25185**

CF A does give all GT across but not down

all results are exactly same as CF B except Y.T.D Total (#7) which comes out all as '0 T'

ACCUMULATOR AT ACC

Enter	Depress	
	[CF]	Select Program
100	[+]	
150	[+]	
175	[+]	
	[T]	
2000	[+]	
1500	[+]	
	[T]	
	[GT]	
	[T]	
	[END]	End program
200	[+]	
250	[+]	
280	[+]	
		Total prints automatically
3500	[+]	
4000	[+]	
		Total prints automatically Grandtotal prints automatically
	[T]	To print totals for January
175	[+]	
	[SKIP]	No Entry
395	[+]	
1900	[+]	
2500	[+]	
280	[+]	
	[SKIP]	
680	[+]	
3200	[+]	
3900	[+]	
	[T]	To print totals for February
	[GT] [T]	To print grand total (January plus February)

Tape

```
CF 24,GT

        001#
01            100+
02            150+
03            175+
04            425T

05          2 000+
06          1 500+
07          3 500T

08          3 925*
------------------
        002#
01            200+
02            250+
03            280+
04            730T
05          3 500+
06          4 000+
07          7 500T

08          8 230*
------------------
        003#
01            300T
02            400T
03            455T
04          1 155T
05          5 500T
06          5 500T
07         11 000T
08         12 155T
------------------
        004#
01            175+
02        SKIP   +
03            395+
04            570T

05          1 900+
06          2 500+
07          4 400T

08          4 970*
```

Tape Continued

```
        005#
01            280+
02        SKIP   +
03            680+
04            960T

05          3 200+
06          3 900+
07          7 100T

08          8 060*
------------------
        006#
01            455T
02              0T
03          1 075T
04          1 530T
05          5 100T
06          6 400T
07         11 500T
08         13 030T
------------------
        007#
01            755*
02            400*
03          1 530*
04          2 685*
05         10 600*
06         11 900*
07         22 500*
08         25 185*
------------------
        008#
```

Proration is the addition of various amounts and the calculation of what percentage each amount is to the total. The Logos 75B then permits the automatic allocation of amounts using these percentages.

With the Accumulator off – proration of up to 52 amounts and the ability to allocate amounts.

With the Accumulator on ACC – proration of up to 26 amounts and the ability to allocate amounts and accumulate those allocations.

Example:

Dept.	Area (Sq. Ft.)	% of Total	Rent	Heat	Total
A	17,800	**26.06**	**8340**	**1564**	**9904**
B	16,000	**23.43**	**7496**	**1406**	**8902**
C	16,500	**24.16**	**7731**	**1449**	**9180**
D	18,000	**26.35**	**8433**	**1581**	**10014**
	68,300		32,000	6,000	**38,000**

ACCUMULATOR ON ACC

Enter	Depress		Tape		Description
	PRO	Select Program	PRO 26		
17800	+	Add numbers to be prorated	01	17 800+	
16000	+		02	16 000+	
16500	+		03	16 500+	
18000	+		04	18 000+	
	END	End program Total prints automatically		68 300G	
			01	26.06%	
	T	Proration prints	02	23.43%	Proration
			03	24.16%	
32000	T	Enter number to be allocated	04	26.35%	Allocation using proration percentages
				32 000T	
6000	T	Enter number to be allocated	01	8 340+	Allocation using proration percentages
			02	7 496+	
			03	7 731+	
			04	8 433+	
	GT T	Print Grandtotal of allocations		6 000T	Grandtotal of allocations
			01	1 564+	
			02	1 406+	
			03	1 449+	
			04	1 581+	
			01	9 904*	
			02	8 902*	
			03	9 180*	
			04	10 014*	
				38 000*	

VERT No function in proration

CORR If an error is made when entering numbers in proration and it is caught right after it has been entered, enter the line number, depress Correct Key then enter the correct number and continue.

If an error is discovered in previously entered numbers corrections should be made just before the program is ended. Corrections are made as described above.

Corrections can be made even after the program is ended.

SKIP No function in proration

END Depress END after all numbers which are to be prorated are entered. The total will print.

DIST

With the Accumlator off, this program permits the distribution of amounts in up to 52 categories; with the Accumulator on, amounts can be distributed in up to 26 categories and sums & grand-totals can be obtained.

To distribute amounts, enter the category, depress the Add Key, enter the amount and depress the Add Key; the category and amount will print. After all amounts have been distributed depress the End Key to print the total amount and total number of entries. Depress the Total Key and the total amount, total items (for each category) and what percentage they are of the total, prints.

Example:

Store A		Store B		Store C	
1	$100	2	$195	1	$12
2	50	3	208	1	19
7	65	7	36	1	25
3	15	7	85		
2	12				
6	15				

Grand Total

Category	Price	Items
1	**156**	**4**
2	**257**	**3**
3	**223**	**2**
6	**15**	**1**
7	**186**	**3**

If T not pushed after ea. store, Totals will accumulate.

ACCUMULATOR AT ACC

Enter	Depress	
	DIST	Select Program
1	+	Enter category
100	+	Enter amount
2	+	
50	+	
7	+	
65	+	
3	+	
15	+	
2	+	
12	+	
6	+	
15	+	
	END	Total prints
	T	Information for each category prints
		Enter Store B
2	+	
195	+	
3	+	
208	+	
7	+	
36	+	
	+	Not necessary to make numberic entry if category is the same as one entered previously.
85	+	
	END	
	T	Information for each category prints
1	+	Enter Store C
12	+	
	+	
19	+	
	+	
25	+	
	END	
	T	Information for each category prints
	GT	Information for
	T	all stores prints by category

Tape

```
DIST 26

01      100+
02       50+
07       65+
03       15+
02       12+
06       15+

        257G
          6#
01      100T
     38.91%T
          1#
     16.67%#

02       62T
     24.12%T
          2#
     33.33%#

03       15T
      5.84%T
          1#
     16.67%#

06       15T
      5.84%T
          1#
     16.67%#

07       65T
     25.29%T
          1#
     16.67%#

02      195+
03      208+
07       36+
07       85+

        524G
          4#

02      195T
     37.21%T
          1#
     25.00%#
```

Tape Continued

```
03      208T
     39.69%T
          1#
     25.00%#

07      121T
     23.09%T
          2#
     50.00%#

01       12+
01       19+
01       25+

         56G
          3#

01       56T
    100.00%T
          3#
    100.00%#

01      156*
     18.64%*
          4#
     30.77%#

02      257*
     30.70%*
          3#
     23.08%#

03      223*
     26.64%*
          2#
     15.38%#

06       15*
      1.79%*
          1#
      7.69%#

07      186*
     22.22%*
          3#
     23.08%#
```

STORE C

GT

VERT

No function in distribution

CORR

If the error is discovered immediately after entry, depress the Correct Key followed by the Add Key. The entry will be subtracted out and the item count reduced.

If the error has been made previously enter the category number, depress the Correct Key, enter the amount and depress the Add Key. The entry will be subtracted out and the item count reduced.

In either case make correct entry and continue.

SKIP

No function in distribution

END

Depress after all entries have been made; total amount and total number of items prints.

Your Example:

Settings: Accumulator ____________
Decimal at ____________
Round off at ____________
Percent Switch____________

Enter	Depress		Tape	Description

Your Example:

Settings: Accumulator ____________
Decimal at ____________
Round off at ____________
Percent Switch ____________

Enter	Depress		Tape	Description